
North America's Leader in Hazardous Material Information Management
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MSDS PRODUCT INFORMATION

Date: 10/07/2005
To: MSDS Requester
From: 3E Company
Subject: The MSDS you have requested

☐ MSDS NOT REQUIRED

In response to your request for a Material Safety Data Sheet, according to the OSHA Hazard Communication Standard (Right-to-Know), the following item is an article. Articles are defined in 29 CFR 1910.1200(c). Products such as Drugs, cosmetics, food, or alcoholic beverages, wood or wood products, and tobacco or tobacco products, as defined in 29 CFR 1910.1200(b)(6), are exempt from the Hazard Communication Standard. Items that are considered articles, as defined in 29 CFR 1910.1200(c), are also exempt from this Standard. Therefore, the manufacturer is not required to provide an MSDS for this product.

☒ MSDS DISCONTINUED PRODUCT

In response to your request for a Material Safety Data Sheet, the manufacturer has discontinued the product listed below. The MSDS Attached is the most current version, or an MSDS is no longer available.

☐ MSDS BEST COPY AVAILABLE

The MSDS attached is the best copy available from the manufacturer.

☐ MANUFACTURER NO LONGER IN BUSINESS

In response to your request for a Material Safety Data Sheet, a current MSDS could not be obtained for this product. It has been determined that the manufacturer listed below is no longer in business. A current address and phone number could not be located.

Manufacturer: Solaris Group
Product Name: Ortho Funginex Rose Disease Control (DISCONTINUED)

MATERIAL SAFETY DATA SHEET



SOLARIS

DATE PREPARED: 07/27/1995

MSDS No: 1465

ORTHO® FUNGINEX® Rose Disease Control

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ORTHO® FUNGINEX® Rose Disease Control**PRODUCT DESCRIPTION:** Fungicide

MANUFACTURER

The SOLARIS Group
of Monsanto Company

P.O. Box 5008

San Ramon, CA 94583-0808

EPA REG. NO.: 239-2435A PN: 5314-G

24 HR. EMERGENCY TELEPHONE NUMBERS

Emergency Phone 800-454-2333

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name

Triforine,

N,N'-(1,4-piperazinediylbis{2,2,2-trichloroethylidene})bis{formamide}

INERT INGREDIENTS

Wt.% CAS Registry

6.5 26644-46-2

~ 92.3

"Inert Ingredients" is a term defined by the U.S. Environmental Protection Agency under the Federal Insecticide, Fungicide, and Rodenticide Act (40 CFR 158.153). It refers to any substance, other than an active ingredient, which is intentionally added to a pesticide product. Some inert ingredients may be hazardous chemicals, as defined by the Federal OSHA Hazard Communication Standard (29 CFR 1910.1200). The hazards associated with these inert ingredients have been included in this document.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Light amber liquid

IMMEDIATE CONCERNS: - KEEP OUT OF REACH OF CHILDREN
- CONTENTS UNDER PRESSURE

POTENTIAL HEALTH EFFECTS

EYES: This substance is a severe eye irritant and could cause permanent damage to your eyes and blindness. The degree of the injury will depend on the amount of material that gets into the eye and the speed and thoroughness of the first aid treatment. Symptoms of overexposure may include discomfort, irritation and redness, and blurred vision. See Toxicological Information, section 11.

SKIN: This substance is not expected to cause prolonged or significant skin irritation. This substance is slightly toxic to internal organs if absorbed through the skin. The degree of injury will depend on the amount absorbed. See Toxicological Information, section 11.

INGESTION: This substance is slightly toxic to internal organs if swallowed. See Toxicology Information, section 11.

INHALATION: This substance may be slightly toxic to internal organs if inhaled. The degree of injury will depend on the airborne concentration and duration of exposure. This substance may be irritating if inhaled. See Toxicological Information, section 11.

4. FIRST AID MEASURES

EYES: Flush eyes immediately with fresh water for at least 15 minutes while holding the eyelids open. Remove contact lenses if worn. Call a physician.

SKIN: If on skin, remove contaminated clothing, wash skin with plenty of soap and water. Wash contaminated clothing before reuse.

INGESTION: If swallowed, give water or milk to drink and telephone for medical advice (800-457-2022 OR 800-454-2333). DO NOT make person vomit unless directed to do so by medical personnel. If medical advice cannot be obtained, then immediately take the person and product container, with label, to the nearest medical emergency treatment center or hospital.

INHALATION: If respiratory discomfort or irritation occurs, move the person to fresh air. See a doctor if discomfort or irritation continues.

ADDITIONAL INFORMATION: Medical Information: Call day or night, 1-800-454-2333 OR 1-800-457-2022.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: 147°F TAG CC

EXTINGUISHING MEDIA: Alcohol Foam, CO₂, Dry Chemical, Water Fog

HAZARDOUS COMBUSTION PRODUCTS: Hydrochloric acid gas may be formed in a fire.

FIRE FIGHTING PROCEDURES: Smoke from fires involving this material may present unusual hazards. Avoid breathing smoke and mists. Avoid contact with fallout and runoff. Minimize the amount of water used for fire fighting. Do not enter any enclosed area without full protective equipment, including self-contained breathing equipment. Contain and isolate runoff and debris for proper disposal. Read the entire document.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Soak up spilled material with paper towels or other absorbent material and discard in trash. Product is highly flammable. Keep all sources of ignition away from spill.

LARGE SPILL: Eliminate all sources of ignition in vicinity of spill or released vapor.

Liquid spills on floor or other impervious surfaces should be contained or diked, and should be absorbed with attapulgite, bentonite or other absorbent material. Collect contaminated absorbent, place in plastic-lined metal drum and dispose of in accordance with instructions provided under Section 13. "DISPOSAL". Thoroughly scrub floor or other impervious surface with a strong industrial type detergent solution and rinse with water.

For liquid spills that soak into the ground, contact the applicable Federal, State and or County Health Dept. for disposal recommendations. If disposal is required then refer to Section 13 "DISPOSAL" for instructions.

Leaking containers should be separated from non-leakers and either the container or its contents transferred to a drum or other non-leaking container and disposed of in accordance with instructions provided under Section 13 "Disposal". Any recovered spilled liquid should be similarly collected and disposed of.

Do not contaminate water, foodstuffs or feed by storage or disposal.

GENERAL PROCEDURES: Observe all protection and safety

CONTROLS/PERSONAL PROTECTION". For help with any spill, leak, fire or exposure involving this material, call day or night (800) 454-2333.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Keep pesticide in original container. Avoid contamination of feed and foodstuffs. Store in a secure cool, dry place. Do not store diluted spray.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: No special ventilation is normally required. However, if operating conditions create airborne concentrations which exceed the recommended exposure standards (in Section 8), then special ventilation may be required.

PERSONAL PROTECTION

EYES AND FACE: Appropriate eye protection must be worn when working with this material or serious harm can result. Wear chemical goggles or a face shield at all times.

SKIN: Avoid contact with skin or clothing. Skin contact should be minimized by wearing protective clothing including chemical resistant gloves.

RESPIRATORY: Handling of the undiluted product is not likely to present an airborne exposure concern during normal handling. In the event of an accidental discharge of the material during manufacture or handling which produces a heavy vapor or mist, workers should put on respiratory protection equipment. Consult respirator manufacturer to determine appropriate type of equipment. Observe respirator use limitations specified by NIOSH MSHA or the manufacturer.

For application of product diluted in accordance with label instructions, no special respiratory protection is required.

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200):

| <u>Chemical Name</u> | <u>EXPOSURE L</u> | |
|---|-------------------|-----------------|
| | <u>OSHA PEL</u> | <u>ACGIH TL</u> |
| N,N'-(1,4-piperazinediylbis{2,2,2-trichloroethylidene})bis{formamide} | None | None |
| Cyclohexanone | 200 mg/m3 | 100 mg/m3 |
| N-Methyl Pyrrolidone | None | None |
| Atlox 3406-F | None | None |

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

ODOR: Hydrocarbon Solvent

APPEARANCE: Light amber liquid

pH: No Data Available

PERCENT VOLATILE: No Data Available

VAPOR PRESSURE: No Data Available

VAPOR DENSITY: No data Available

BOILING POINT: No Data Available

FREEZING POINT: <25°F

MELTING POINT: No Data Available

SOLUBILITY IN WATER: Miscible with water.

EVAPORATION RATE: No Data Available

SPECIFIC GRAVITY: 1.01 gr/cc at 20°C

VISCOSITY: No Data Available

10. STABILITY AND REACTIVITY

STABLE: YES

HAZARDOUS POLYMERIZATION: NO

CONDITIONS TO AVOID: No data available.

HAZARDOUS DECOMPOSITION: Hydrochloric acid gas may be formed in a fire.

INCOMPATIBLE MATERIALS: May react with strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

11. TOXICOLOGICAL INFORMATION

ACUTE

EYES: Corrosive (irreversible destruction of ocular tissue); corneal involvement and irritation persisting for more than 21 days.

DERMAL LD₅₀: Mild to slight irritation at 72 hours. The dermal LD50 in rabbits is 2 - 5 g/kg.

ORAL LD₅₀: The oral LD50 in female and male rats is 1.61 and 1.95 g/kg, respectively.

INHALATION LC₅₀: The 4-hour Inhalation LC50 in rats is 2.6 mg/l (dilute).

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: No data available.

ECOTOXICOLOGICAL INFORMATION: The active ingredient in this product "Triforine" has a low toxicity to plants, mammals, birds, beneficial insects and aquatic animals. (Data supplied by Shell International Chemical Company Ltd.)

13. DISPOSAL CONSIDERATIONS

FOR LARGE SPILLS: Material collected that cannot be reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, State or local procedures.

PRODUCT DISPOSAL: The Solaris Group is committed to responsible environmental practices and recommends that all of the product be used up, carefully following all label directions and precautions.

If necessary to dispose of partially filled product container, then securely wrap it in several layers of newspaper and discard in trash.

EMPTY CONTAINER: Do not reuse container. Rinse thoroughly before discarding in trash.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Not Regulated

PRIMARY HAZARD CLASS/DIVISION: None

UN/NA NUMBER: None

PACKING GROUP: No

U.S. SURFACE FREIGHT CLASS: Insecticides, Fungicides,

Insect or animal repellents or vermin exterminators, NOI, Other than poison

SPECIAL SHIPPING NOTES: The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

| PRODUCT CLASSIFICATION UNDER SECTION 311 OF SARA | | | | |
|--|----------|-------|-------------|----------------|
| ACUTE: | CHRONIC: | FIRE: | REACTIVITY: | PRESSURE |
| YES | NO | YES | NO | GENERATING: NO |

313 REPORTABLE INGREDIENTS: Triforine. (CAS 26644-46-2) De Minimis Concentration for Section 313 of EPCRA is 1.0%.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA REGULATORY: All non FIFRA regulated components are on the US EPA's TSCA Inventory List.

16. OTHER INFORMATION

HMIS CODES

FIRE: 2 **HEALTH:** 3 **REACTIVITY:** 0 **PROTECTION:** -

NFPA CODES

FIRE: 2 **HEALTH:** 3 **REACTIVITY:** 0 **SPECIAL:** -

APPROVAL DATE: 09/11/1995

REVISION SUMMARY

New MSDS

COMMENTS: For additional information concerning this product, call the SOLARIS Groups Consumer Helpline at 800-225-2883.

MANUFACTURER DISCLAIMER: This Material Safety Data Sheet (MSDS) contains health, safety and environmental information for you and your employees. It does not replace the precautionary language, use directions, or the storage and disposal information found on the

product label. Information contained in this MSDS will help you to prepare for emergency response and to meet community right-to-know, emergency response and reporting requirements under SARA Title III and many other laws. Emergency response agencies and health care providers will also find this additional information useful.

Use of this product is regulated by the U.S. Environmental Protection Agency (EPA) through the approved label copy. It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Although the information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed to be correct as of the date hereof, Monsanto Company and The Solaris Group make no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determinations as to its suitability for their purposes prior to use. In no event will Monsanto Company or The Solaris Group be responsible for damages of any nature whatsoever resulting from the use of or reliance upon Information. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS.